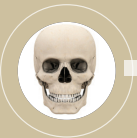


VISIT...

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SKULL

Skull implants will be manufactured by a 3D printer. Implants can be used as space for a centralised control panel or additional memory.

WHAT'S HAPPENING NOW?

Last year a Chinese infant became the first person to undergo a complete skull reconstruction thanks to 3D printing technology and in 2014 a woman in the Netherlands, who suffered from a chronic bone disorder, had the top section of her skull removed and replaced with a 3D implant.



EARS

Bionic hearing will be run-of-the-mill for the augmented humans of the future with the ability to turn the volume of life up or down on a whim.

WHAT'S HAPPENING NOW?

Many bionic hearing gadgets already exist, including Soundhawk – the brainchild of ear surgeon Rodney Perkins. The weight of an earring, it fits in the ear and enhances hearing. Another variation of this technology are Cochlear implants, intended for people who are severely hearing impaired. Surgically implanted, they transmit signals to electrodes in the cochlea to stimulate the cochlear nerve.



THROAT

Don't like how you sound? Want to learn a new language? An artificial windpipe and voice box will give humans of the future the ability to talk in any language, in any dialect, at any volume.

WHAT'S HAPPENING NOW?

Artificial synthetic windpipes can be transplanted into the human body with the aid of stem cells.

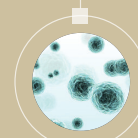


HANDS

A microchip will be imbedded in your dominant hand with all your public details including name and place of work. With the ability to hold detail, simply shake someone else's hand for a quick information transfer. No need for business cards now.

WHAT'S HAPPENING NOW?

Many people have had microchips embedded in their bodies, from hobbyists to tech evangelists. One major microchip implanter estimated there are more than 10,000 "cyborgs" or humans with digital chips in them across the globe.



STOMACH

An inbuilt bio-med reader will effectively break down the components of what you are putting into your body to give you an extensive health analysis.

WHAT'S HAPPENING NOW?

Many tests already exist in order to help health professionals get a better look at the inner workings of their patients. The Barium Swallow is a radiographic examination of the gastrointestinal tract and a Capsule Endoscopy, or camera pill, allows a thorough examination of the digestive system.



FEET

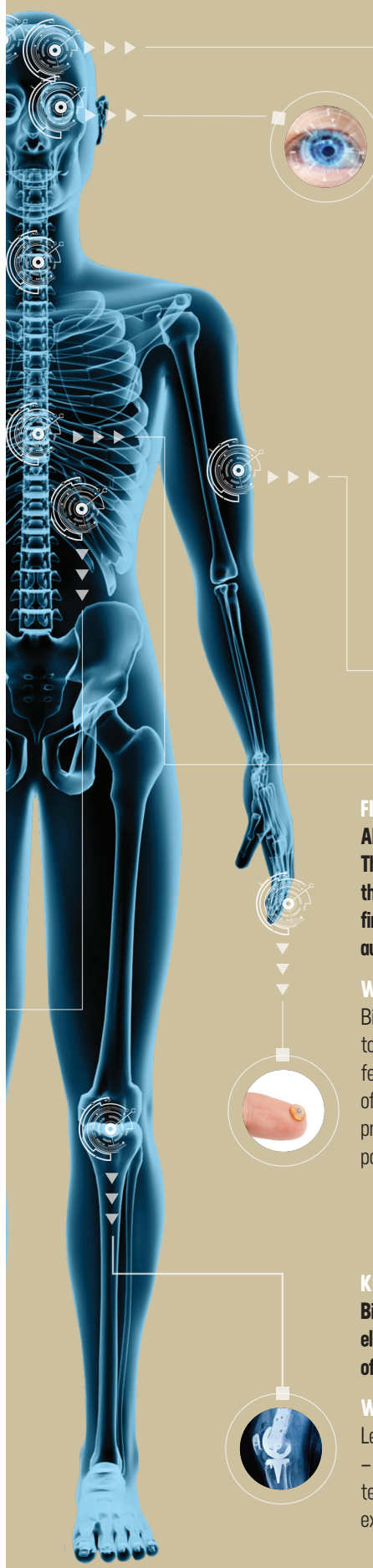
Bionic feet will also be a standard upgrade, giving people the ability to stand for days on end with no pain, increase the speed at which they move and also eliminate the need for protective footwear. With a human or more stylish robotic design to choose from they can be customised for each individual.

WHAT'S HAPPENING NOW?

Many variations of prosthetic feet now exist, including bionic options. One of the most high-tech is the Proprio foot, a prosthetic with a motorised, battery powered ankle which automatically adjusts the angle of the foot thanks to sensors embedded in muscle tissue.

THE AUGMENTED HUMAN

Simon Raik-Allen's sci-fi vision of the future worker is increasingly looking more science than fiction.



EYES

A permanent, customisable contact lens will allow people's eyes to have an inbuilt retina display. From perfect 20/20 vision to tuning into live-broadcast video, humans will have access to it all.

WHAT'S HAPPENING NOW?

Samsung recently patented contact lenses that can record footage, take photos and project augmented reality onto our eyes. The lenses would also allow users to connect wirelessly to smartphones. The controversial Google Glass used similar technology, displaying information in a hands-free eyeglass format.

FINGERS

All index fingers will be bionic. They will have the ability to swipe through holographic images and fine tune, repair and charge other augmented additions to the body.

WHAT'S HAPPENING NOW?

Bionic fingers already exist in order to give amputees the ability to feel textures. They are also part of many finger and partial hand prosthetics, and can either be powered electronically or manually.

KNEES

Bionic knees will be a commonplace augmentation, eliminating the standard wear and tear issues of the past.

WHAT'S HAPPENING NOW?

Leg and knee prosthetics have been around for some time – from primitive wooden variations to much more high-tech advancements. Bionic or spring loaded braces also exist, not only for medical reasons but to aid athletes.

BRAIN

A chemical switchboard panel will be fitted into the brain. You want to feel energised? Up those endorphin, oxytocin or serotonin levels.

WHAT'S HAPPENING NOW?

A British-born self-proclaimed "cyborg activist", Neil Harbisson, had an antenna implanted in his skull over a decade ago in order to perceive the colour spectrum beyond human vision, allowing him to see infrareds and ultraviolet via soundwave vibrations. Numenta, a company building computer memory systems and IBM, amongst others, have created brain-like programmable memory chips in recent years.

ARMS

The wrist will feature a stylish inbuilt scanner system which will make it easy to not only scan items but will enable easy check-ins and verifications. At the airport? Swipe your wrist. The gym? Office building? Need to get in to your house? Just swipe.

WHAT'S HAPPENING NOW?

A high-tech office block in Sweden offered tenants the chance to be chipped with a radio-frequency identification chip (RFID) in order to gain entry to the building last year.

ORGANS

Organs will be easily replaced, with robotic, augmented versions. For example, the heart will become a battery-powered organ, easily maintained and eliminating the risk of heart failure or cardiac arrest. Artificial kidneys will replace the need for dialysis or transplants.

WHAT'S HAPPENING NOW?

Pacemakers are a well known device placed in the chest or abdomen to help control abnormal heart rhythms and many other bionic organs are in the early stages of development, from the pancreas, lungs, spleen and kidney. The bionic man, which came to life in 2013, exists as an amalgam of the most advanced human prostheses.